## PATENT COOPERATION TREATY

# From the INTERNATIONAL SEARCHING AUTHORITY

To:

NOTIFICATION OF TRANSMEDIAL OF

| RANBAXY LABORATORIES LIMITED Attn. Deshmukh, Jay R. 600 College Road East Suite 2100 Princeton, NJ 08540 UNITED STATES OF AMERICA | THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION |  |  |  |  |
|---|--|--|--|--|--|
|   | (PCT Rule 44.1)  |  |  |  |  |
|   | Date of mailing (day/month/year) 29/06/2005  |  |  |  |  |
| Applicant's or agent's file reference   |  |  |  |  |  |
| RLL-464WO   | FOR FURTHER ACTION See paragraphs 1 and 4 below  |  |  |  |  |
| International application No.   | International filing date  |  |  |  |  |
| PCT/IB2004/003717   | (day/month/year) 12/11/2004  |  |  |  |  |
| Applicant   |  |  |  |  |  |
| RANBAXY LABORATORIES LIMITED  |  |  |  |  |  |

| 1. X         | The applicant is hereby notified that the International search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.   |  |  |  |  |
|--------------|--|--|--|--|--|
|              | Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):   |  |  |  |  |
|              | When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international Search Report; however, for more details, see the notes on the accompanying sheet.  |  |  |  |  |
|              | Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35   |  |  |  |  |
|              | For more detailed instructions, see the notes on the accompanying sheet.   |  |  |  |  |
| 2.           | The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith. |  |  |  |  |
| з. 🗌         | With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  |  |  |  |  |
|              | the protest together with the decision thereon has been transmitted to the international Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.                 |  |  |  |  |
|              | no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.  |  |  |  |  |
| 4. Reminders |  |  |  |  |  |

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bs.1 and 90bs.3; respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016

Authorized officer

Jaap Hurenkamp



Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

mrl,

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

# **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international proliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Fluile 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   \*Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added.\*
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

  4. [Where various kinds of amendments are made]:
  "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claims 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 48.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

# Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference  | FOR FURTHER ACTION as we   | see Form PCT/ISA/220<br>Il as, where applicable, item 5 below. |
|--|--|--|
| RLL-464WO International application No.  | International filing date (day/month/year)   | (Earllest) Priority Date (day/month/year)                      |
| пкеталона аррісалон но.  | international hing date (day/nionaryear)   | (Lanesty Priority Date (Day/monityear)                         |
| PCT/IB2004/003717  | 12/11/2004   | 12/11/2003   |
| Applicant  |  |  |
| RANBAXY LABORATORIES LIMIT   | red  |  |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this International Searching Aut<br>ansmitted to the International Bureau.   | chority and is transmitted to the applicant                    |
| This International Search Report consists  | of a total of sheets.  |  |
|  | a copy of each prior art document cited in this  | s report.  |
|  | international search was carried out on the ba<br>ess otherwise indicated under this item. | sis of the international application in the                    |
| The international this Authority (Ru   |  | lation of the international application furnished to           |
| b. With regard to any nucle  | otide and/or amino acid sequence disclosed   | in the international application, see Box No. I.               |
| 2. X Certain claims were fou   | nd unsearchable (See Box II).  |  |
| 3. Unity of invention is lac   | king (see Box III).  |  |
| 4. With regard to the title,   |  |  |
| X the text is approved as su   | bmitted by the applicant.  |  |
| the text has been establis   | hed by this Authority to read as follows:  |  |
|  |  |  |
|  |  |  |
|  |  |  |
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|  |  |  |
|  |  |  |
|  |  |  |
| E M6th cogord to the -t  |  |  |
| 5. With regard to the abstract,  | hmilted by the analisant   |  |
| the text is approved as su   | omitted by the applicant.<br>hed, according to Rule 38.2(b), by this Author                | ity as it annears in Boy No. IV. The applicant                 |
|  | m the date of mailing of this international sear   |  |
| 6. With regard to the drawings,  |  |  |
|  | ublished with the abstract is Figure No.   |  |
| as suggested by I  |  | <del></del>  |
|  | s Authority, because the applicant failed to su  | ggest a figure.  |
| as selected by thi   | s Authority, because this figure better characte   | erizes the invention.  |
| b. none of the figures is to be  | e published with the abstract.   |  |

Form PCT/ISA/210 (first sheet) (January 2004)

# INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/003717

| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K9/48 A61K31/192  |  |   |                       |  |  |  |
|--|--|---|-----------------------|--|--|--|
|  | According to International Patent Classification (IPC) or to both national classification and IPC        |   |                       |  |  |  |
|  | SEARCHED   | and and an O  |                       |  |  |  |
|  | ocumentation searched (classification system followed by classification A61K                             | on symbols)   |                       |  |  |  |
| Documentat   | ion searched other than minimum documentation to the extent that s                                       | such documents arè included in the fields se          | earched               |  |  |  |
| Electronic d   | ata base consulted during the International search (name of data ba                                      | se and, where practical, search terms used            | )                     |  |  |  |
| EPO-In   | ternal, WPI Data, PAJ, CHEM ABS Data   | a, BIOSIS, MEDLINE, EMBA                              | ASE                   |  |  |  |
| C. DOCUMI  | ENTS CONSIDERED TO BE RELEVANT   |   |                       |  |  |  |
| Calegory *   | Citation of document, with indication, where appropriate, of the rel                                     | evant passages  | Relevant to claim No. |  |  |  |
| х  | US 5 376 688 A (MORTON ET AL)  |   | 1-12,24,<br>25        |  |  |  |
| A  | 27 December 1994 (1994-12-27)<br>column 1, line 57 - line 61   |   | 13-23                 |  |  |  |
| ,,   | column 3, line 14 - line 22<br>column 6; example 5   |   |                       |  |  |  |
| Х  | US 6 387 400 B1 (TINDAL STEPHEN CHARLES ET 13-23 AL) 14 May 2002 (2002-05-14) column 6, line 1 - line 14 |   |                       |  |  |  |
| A  | GB 2 331 458 A (GURSHARAN SINGH * MOONGA) 1-12,24,<br>26 May 1999 (1999-05-26) 25<br>claim 9             |   |                       |  |  |  |
| A  | US 5 071 643 A (YU ET AL)<br>10 December 1991 (1991-12-10)<br>column 13; examples XI,XII                 |   | 1-25                  |  |  |  |
|  |  |   |                       |  |  |  |
| Furth  | ner documents are listed in the continuation of box C.   | X Patent family members are listed in                 | n annex.              |  |  |  |
| * Special categories of cited documents:  *A* document defining the general state of the art which is not considered to be of particular relevance  *A* document defining the general state of the art which is not considered to be of particular relevance  *A* document published after the International filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the |  |   |                       |  |  |  |
| °E° earlier o  | document but published on or after the international ate   | invention "X" document of particular relevance; the c |                       |  |  |  |
| "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another distinct and the construction of particular relevance; the claimed invention  |  |   |                       |  |  |  |
| "O" document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such document is combination being obvious to a person skilled   |  |   |                       |  |  |  |
| "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family   |  |   |                       |  |  |  |
| Date of the a  | actual completion of the international search  | Date of mailing of the international sear             | ch report             |  |  |  |
| 20   | 0 June 2005  | 29/06/2005  |                       |  |  |  |
| Name and m   | Name and mailing address of the ISA  Authorized officer  European Palent Office, P.B. 5818 Patentiaan 2  |   |                       |  |  |  |
|  | NL - 2280 HV RIJSWIJK  |   |                       |  |  |  |
|  | Fax: (+31-70) 340-3016 Muller, S   |   |                       |  |  |  |

# International application No. PCT/IB2004/003717

# **INTERNATIONAL SEARCH REPORT**

| Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)  |
|---|
| This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:  |
| 1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  |
| Although claims 24,25 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.  |
| 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
|   |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).   |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)  |
| This International Searching Authority found multiple inventions in this international application, as follows:   |
|   |
|   |
|   |
| As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.  |
|   |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.   |
|   |
| 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:                       |
|   |
|   |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:           |
|   |
| Remark on Protest  The additional search fees were accompanied by the applicant's protest.  |
| No protest accompanied the payment of additional search fees.   |
|   |

Form PCT/ISA/210 (continuation of first sheet (2)) (January 2004)

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/IB2004/003717

| Patent document<br>dited in search report |     | Publication<br>date |      | Patent family<br>member(s) |    | Publication<br>date |
|---|-----|---------------------|------|----------------------------|----|---------------------|
| US 5376688                                | A   | 27-12-1994          | AU   | 692431                     | B2 | 11-06-1998          |
|   |     |                     | AU   | 5851894                    | Α  | 19-07-1994          |
|   |     |                     | CA   | 2152062                    | A1 | 07-07-1994          |
|   |     |                     | DE   | 69330353                   | D1 | 19-07-2001          |
|   |     |                     | DE   | 69330353                   | T2 | 02-05-2002          |
|   |     |                     | EP   | 0678019                    |    | 25-10-1995          |
|   |     |                     | ES   | 2157975                    |    | 01-09-2001          |
|   |     |                     | JP   | 8507494                    |    | 13-08-1996          |
|   |     |                     | WO   | 9414423                    |    | 07-07-1994          |
| US 6387400                                | B1  | 14-05-2002          | AU   | 2431702                    | A  | 13-03-2002          |
|   |     |                     | BR   | 0113539                    |    | 15-07-2003          |
|   |     |                     | CA   | 2419993                    |    | 07-03-2002          |
|   |     |                     | CN   | 1477953                    |    | 25-02-2004          |
|   | • • |                     | DE   | 01984557                   |    | 22-04-2004          |
|   |     |                     | EP   | 1365749                    |    | 03-12-2003          |
|   | •   |                     | ËS   | 2206081                    |    | 16-05-2004          |
|   |     |                     | HÜ   | 0401224                    |    | 29-11-2004          |
|   |     |                     | JP   | 2004526664                 | Τ. | 02-09-2004          |
|   |     |                     | ΜX   | PA03001762                 | Α  | 04-06-2003          |
|   |     |                     | NO.  | 20030897                   |    | 26-02-2003          |
|   |     |                     | PL   | 365752                     |    | 10-01-2005          |
|   |     |                     | TW   | 589199                     |    | 01-06-2004          |
|   |     |                     | WO   | 0217855                    | -  | 07-03-2002          |
|   |     |                     | ZA   | 200301007                  |    | 13-02-2004          |
| GB 2331458                                | A   | 26-05-19 <b>99</b>  | NONE |                            |    |                     |
| US 5071643                                | Α   | 10-12-1991          | AT   | 66810                      |    | 15-09-1991          |
|   |     |                     | AU   | 606367                     |    | 07-02-1991          |
|   |     |                     | AU   | 8157387                    |    | 06-05-1988          |
|   |     |                     | CA   | 1316823                    |    | 27-04-1993          |
|   |     |                     | DE   | 3772760                    |    | 10-10-1991          |
|   |     |                     | EP   | 0293406                    |    | 07-12-1988          |
|   |     |                     | JP   | 2564476                    |    | 18-12-1996          |
|   |     |                     | JP   | 8157354                    |    | 18-06-1996          |
|   |     |                     | JР   | 2564477                    |    | 18-12-1996          |
|   |     |                     | JP   | 8157355                    |    | 18-06-1996          |
|   |     |                     | JP.  | 7116021                    |    | 13-12-1995          |
|   |     |                     | JP.  | 1502185                    |    | 03-08-1989          |
|   |     |                     | KR-  | 9406270                    |    | 14-07-1994          |
|   |     |                     | KR   | 9408030                    |    | 01-09-1994          |
|   |     |                     | KR   | 9408031                    |    | 01-09-1994          |
|   |     |                     | NZ   | 222586                     |    | 26-09-1990          |
|   |     |                     | MÓ   | 8802625                    |    | 21-04-1988          |
|   |     |                     | US   | 5360615                    |    | 01-11-1994          |
|   |     |                     | ZA   | 8708723                    | Δ  | 28-06-1989          |

# **PATENT COOPERATION TREATY**

| From  | RNATIONAL SEA  | RCHING AUTH      | ORITY                       |  |  |  |
|---|--|------------------|-----------------------------|--|--|--|
| То:   | То:  |                  |                             | PCT  |  |  |
|   | see form   | PCT/ISA/220      |                             | WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY             |  |  |
|   |  |                  |                             |  | (PCT Rule 43bis.1)                           |  |
|   |  |                  |                             | Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) |  |  |
|   | licant's or agent's file<br>form PCT/ISA/2   |                  |                             | FOR FURTHEF<br>See paragraph 2 be                                    |  |  |
|   | rnational application I<br>TAB2004A003717  |                  | International filing date ( | day/month/year)  | Priority date (day/month/year)<br>12.11.2003 |  |
| i   | rnational Patent Clas<br>1K9/48, A61K31/   | , ,              | both national dassification | and IPC  |  |  |
|   | licant<br>NBAXY LABORA   | ATORIES LIMI     | TED                         |  | 300000000000000000000000000000000000000      |  |
| 1.  | This opinion co  | ontaine indicati | ons relating to the foll    | owing items:   |  |  |
| ''  | _ •  |                  | •                           | owng tems.   |  |  |
|   | ⊠ Box No. I  | Basis of the op  | oinion                      |  |  |  |
|   | ☐ Box No. II   | Priority         |                             | ard to novolty, invon  | this stan and industrial applicability       |  |
|   | ☐ Box No. III Non-establishment of opinion with rega   |                  |                             | ard to noverty, invert   | nve step and moostnar applicability          |  |
|   | <ul> <li>☐ Box No. IV Lack of unity of invention</li> <li>☑ Box No. V Reasoned statement under Rule 43bis.</li> <li>applicability; citations and explanations</li> </ul> |                  |                             |  |  |  |
|   | ☐ Box No. VI   | Certain docum    | ·                           | ,,,  | •  |  |
|   | ☐ Box No. VII  | Certain defects  | s in the international app  | pplication   |  |  |
|   | ☐ Box No. VIII   | Certain observ   | ations on the internation   | nal application  |  |  |
| 2.  | FURTHER ACT  | ION              |                             |  |  |  |
| If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. |  |                  |                             |  |  |  |
| If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.   |  |                  |                             |  |  |  |
|   | For further options, see Form PCT/ISA/220.   |                  |                             |  |  |  |
| 3.  | 3. For further details, see notes to Form PCT/ISA/220.   |                  |                             |  |  |  |
|   |  |                  |                             |  |  |  |
| Ĺ   |  |                  |                             |  |  |  |

Name and mailing address of the ISA:

Authorized Officer

<u>)</u>

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Muller, S

Telephone No. +31 70 340-2080



LUIJI ITLJ APS REC'OPCT/PTO 12 MAY 2005
International application No.
PCT/IB2004/003717

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

|    | Box         | No         | 5. I          | Basis of the opinion  |
|----|-------------|------------|---------------|---|
| 1. | With<br>the | re<br>lanç | gard<br>guag  | to the language, this opinion has been established on the basis of the international application in e in which it was filed, unless otherwise indicated under this item.  |
|    |             | lan        | guag          | sinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).   |
| 2. |             |            |               | to any nucleotide and/or amino acid sequence disclosed in the international application and o the claimed invention, this opinion has been established on the basis of:   |
|    | a. ty       | pe         | of m          | aterial:  |
|    | (           | כ          | a se          | equence listing   |
|    | [           | ]          | table         | e(s) related to the sequence listing  |
|    | b. fo       | orm        | at of         | material:   |
|    |             | כ          | in w          | ritten format   |
|    |             | 3          | in co         | omputer readable form   |
|    | c. ti       | me         | of fil        | ing/furnishing:   |
|    | [           | כ          | con           | tained in the international application as filed.   |
|    | [           | כ          | filed         | together with the international application in computer readable form.  |
|    | [           | כ          | furn          | ished subsequently to this Authority for the purposes of search.  |
| 3. |             | ha<br>co   | s bed<br>pies | tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as riate, were furnished. |
| 4. | Add         | itio       | nal c         | omments:  |

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/003717

| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |   |         |                                   |  |  |  |
|--|---|---------|-----------------------------------|--|--|--|
| The  | The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:                                     |         |                                   |  |  |  |
|  | the entire international applicat   | ion,    |                                   |  |  |  |
| Ø  | claims Nos. 24,25, with respec  | t to ir | ndustrial applicability           |  |  |  |
| bed  | cause:  |         |                                   |  |  |  |
| Ø  | the said international application, or the said claims Nos. 24,25, with respect to industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify): |         |                                   |  |  |  |
|  | see separate sheet  |         |                                   |  |  |  |
|  | the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):   |         |                                   |  |  |  |
|  | the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.  |         |                                   |  |  |  |
| ⊠  | no international search report has been established for the whole application or for said claims Nos. 24,25, with respect to industrial applicability   |         |                                   |  |  |  |
|  | the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:   |         |                                   |  |  |  |
|  | the written form  |         | has not been fumished             |  |  |  |
|  |   |         | does not comply with the standard |  |  |  |
|  | the computer readable form  |         | has not been furnished            |  |  |  |
|  |   |         | does not comply with the standard |  |  |  |
|  | the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.     |         |                                   |  |  |  |
|  | See separate sheet for further details  |         |                                   |  |  |  |

Box No. V Reasoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-25

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-25

Industrial applicability (IA)

Yes: Claims

1-23

No: Claims

2. Citations and explanations

see separate sheet

# Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

For the assessment of the present claims 24,25 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

# Re Item V

Reasoned statement with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

# 1. Cited Documents

The following documents are referred to in this communication:

- D1: US-A-5 376 688 (MORTON ET AL) 27 December 1994 (1994-12-27)
- D2: US-B1-6 387 400 (TINDAL STEPHEN CHARLES ET AL) 14 May 2002 (2002-05-14)
- D3: GB-A-2 331 458 (GURSHARAN SINGH MOONGA) 26 May 1999 (1999-05-26)
- D4: US-A-5 071 643 (YU ET AL) 10 December 1991 (1991-12-10)

# 2. Novelty

No document of the prior art discloses a clear ibuprofen composition comprising: a) 15-40% w/w\_of ibuprofen, b) 15-25% w/w of PEG, c) 20-50% w/w of a surfactant, d) 1-5% w/w of an alkalizing agent, and e) 5-10% w/w water.

Present claims 1-12,24,25 are therefore new over the prior art (Art. 33(2) PCT).

No document of the prior art discloses a particular process for preparing a clear ibuprofen solution comprising ibuprofen, an alkalizing agent, water, PEG and a surfactant. Present claims 13-23 are therefore new over the prior art (Art. 33(2) PCT).

# 3. Inventive Step

# Claims 1-12,24,25

D1 is considered as closest prior art. It discloses in example 5 a Naproxen solution comprising: a) 23,0% Naproxen, b) 5,3% of 50% KOH solution, c) 32,7% PEG, d) 32,7% Tween 80, and e) 1,2% w/w water. D1 claims that the amount of water in the fill material ranges from 1-20% w/w. It also mentions (see column 3, lines 14-22) that Ibuprofen is another suitable acidic pharmaceutical agent in a limited list of possible compounds. Consequently, the difference between D1 and present claim 1 of the present application lies in a slightly different amount of PEG (15-25% w/w in claim 1 instead of 32,5% w/w as exemplified in D1 (example 5)). This difference does not appear to have any particular effect on the ibuprofen composition.

The problem underlying the present application may therefore be formulated as the provision of alternative clear ibuprofen compositions as fill material in a soft gelatin capsule. The solution is obvious since the skilled person would expect minor changes to have little or no effect on the ibuprofen composition.

Independent claims 1 and 24 therefore appear not to be inventive over the prior art (Article 33(3) PCT).

# Claims 13-23

D2 is considered as closest prior art. It discloses (see on column 6, lines 1-14) a process for preparing a clear ibuprofen solution comprising: a) dispersing ibuprofen in PEG, b) adding a 50% KOH/50% water solution to form a clear solution.

The difference between present process claim 13 and the process of D2 lies in further adding a surfactant. This additional step does not appear to have any particular effect on the ibuprofen composition, since both processes of D2 and present claim 13 lead to the formation of a clear solution.

Independent claim 13 therefore does not appear to be inventive over the prior art (Article 33(3) PCT).

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/003717

# 4. Industrial applicability

Claims 24,25 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT). Claims 1-23 satisfy the criterion of industrial applicability set forth in Article 33(4) PCT.